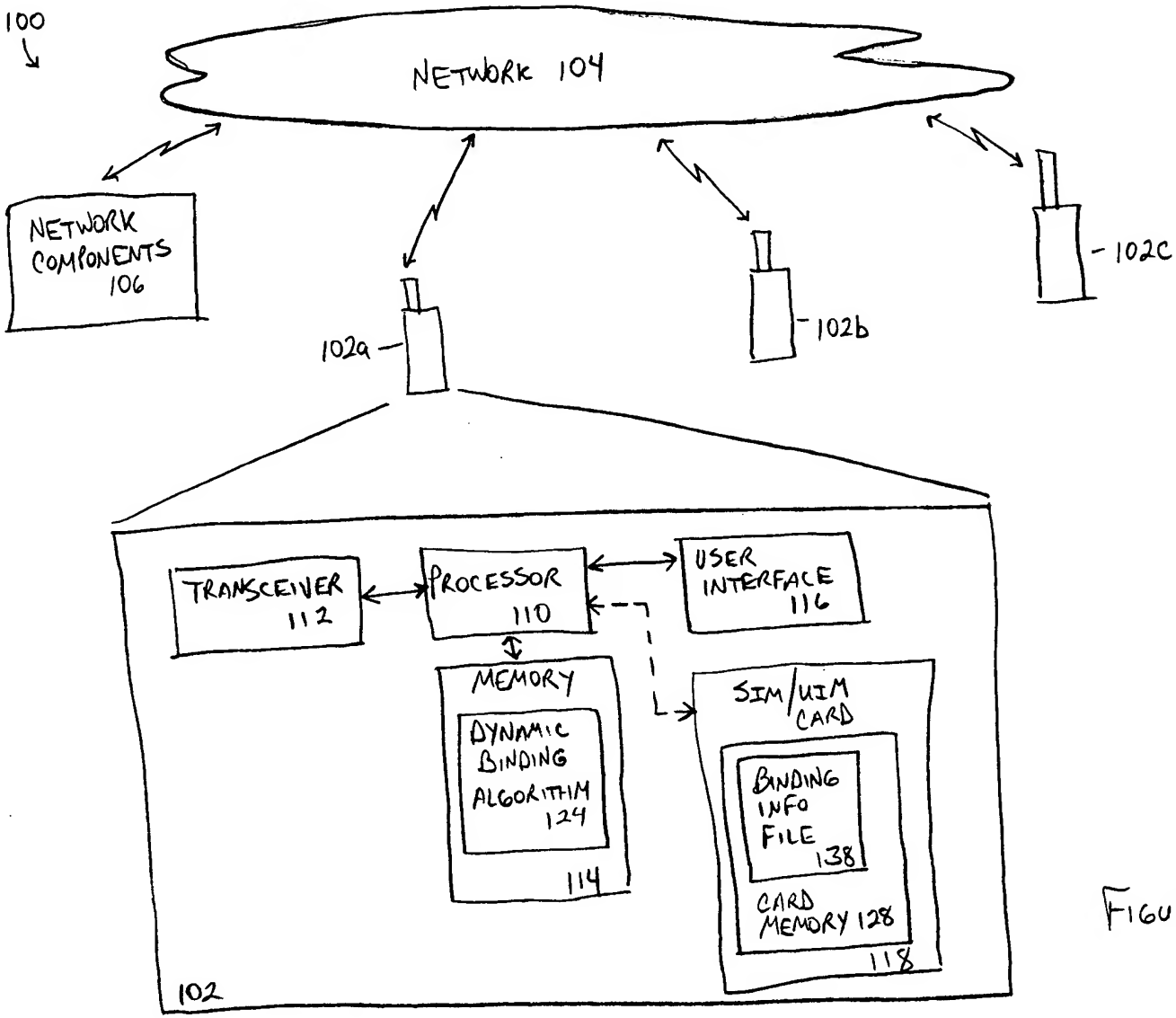
100
NETWORK 104
NETWORK COMPONENTS 106
102a
102b
102c
TRANSCEIVER 112
PROCESSOR 110
USER INTERFACE 116
MEMORY
DYNAMIC BINDING ALGORITHM 124
114
SIM/UIM CARD
BINDING INFO FILE 138
CARD MEMORY 128
118
102

FIGURE 1

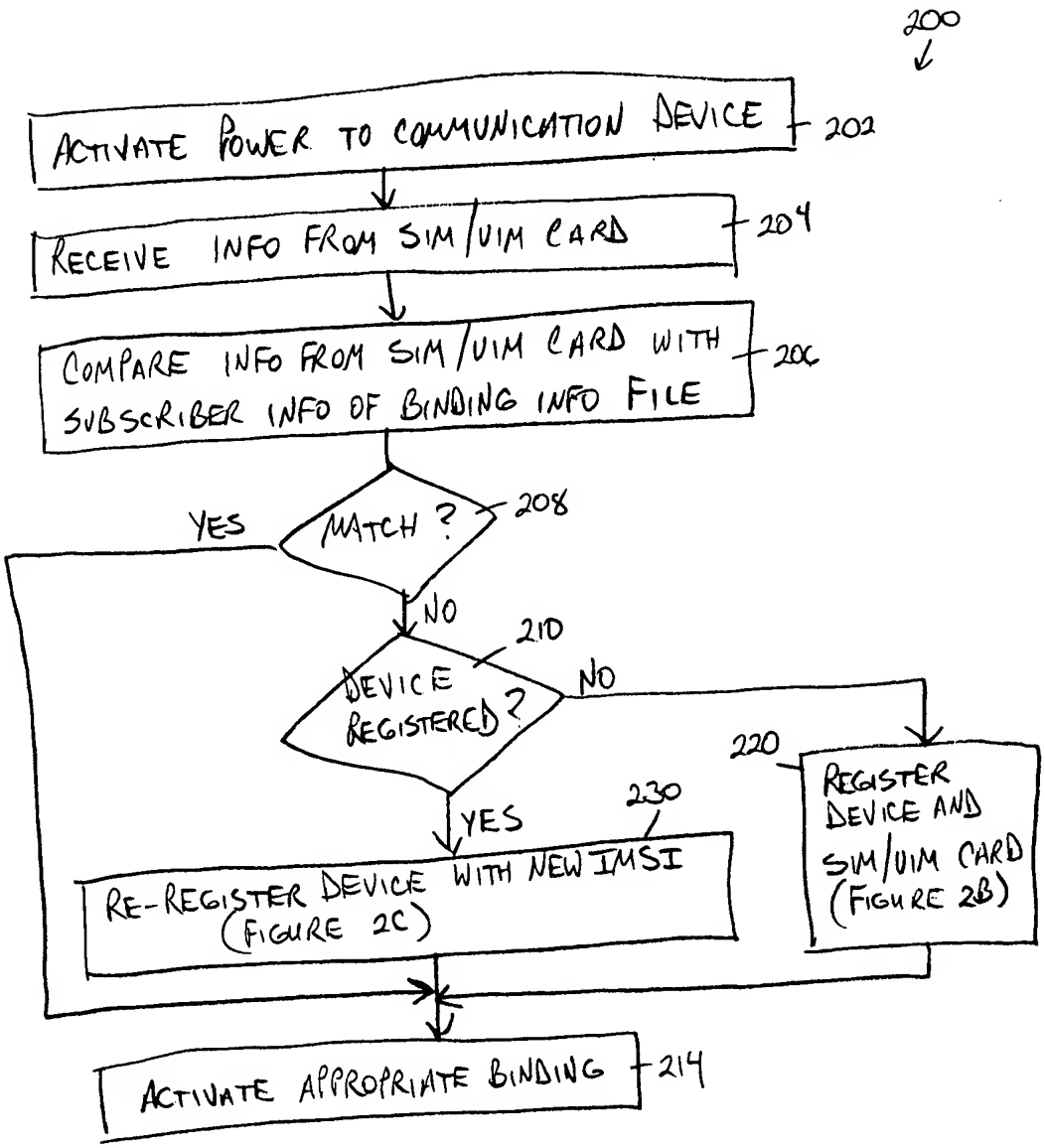
200
ACTIVATE POWER TO COMMUNICATION DEVICE
202
RECEIVE INFO FROM SIM/UIM CARD
204
COMPARE INFO FROM SIM/UIM CARD WITH SUBSCRIBER INFO OF BINDING INFO FILE
206
MATCH ?
208
YES
NO
DEVICE REGISTERED ?
210
NO
YES
220
REGISTER DEVICE AND SIM/UIM CARD (FIGURE 2B)
230
RE-REGISTER DEVICE WITH NEW IMSI (FIGURE 2C)
ACTIVATE APPROPRIATE BINDING
214

FIGURE 2A

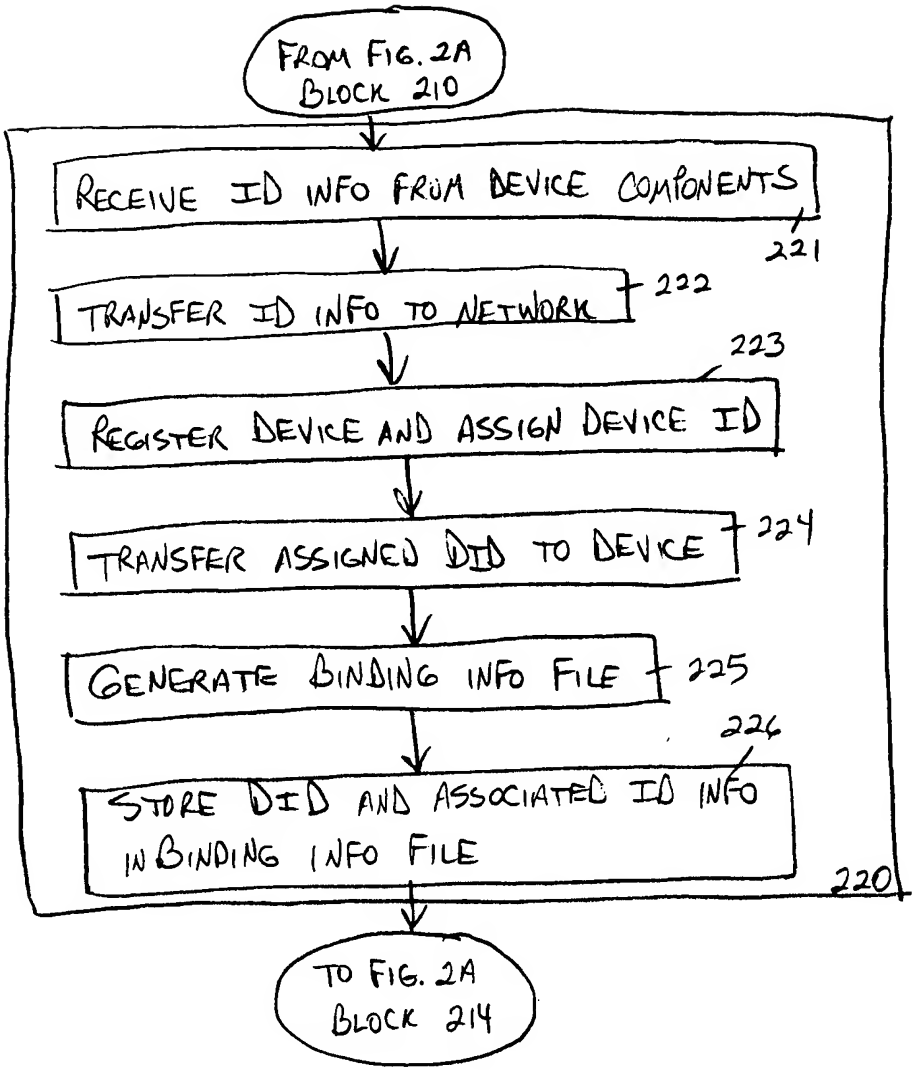
FROM FIG. 2A BLOCK 210
RECEIVE ID INFO FROM DEVICE COMPONENTS
221
TRANSFER ID INFO TO NETWORK
222
223
REGISTER DEVICE AND ASSIGN DEVICE ID
TRANSFER ASSIGNED DID TO DEVICE
224
GENERATE BINDING INFO FILE
225
226
STORE DID AND ASSOCIATED ID INFO IN BINDING INFO FILE
220
TO FIG. 2A BLOCK 214

FIGURE 2B

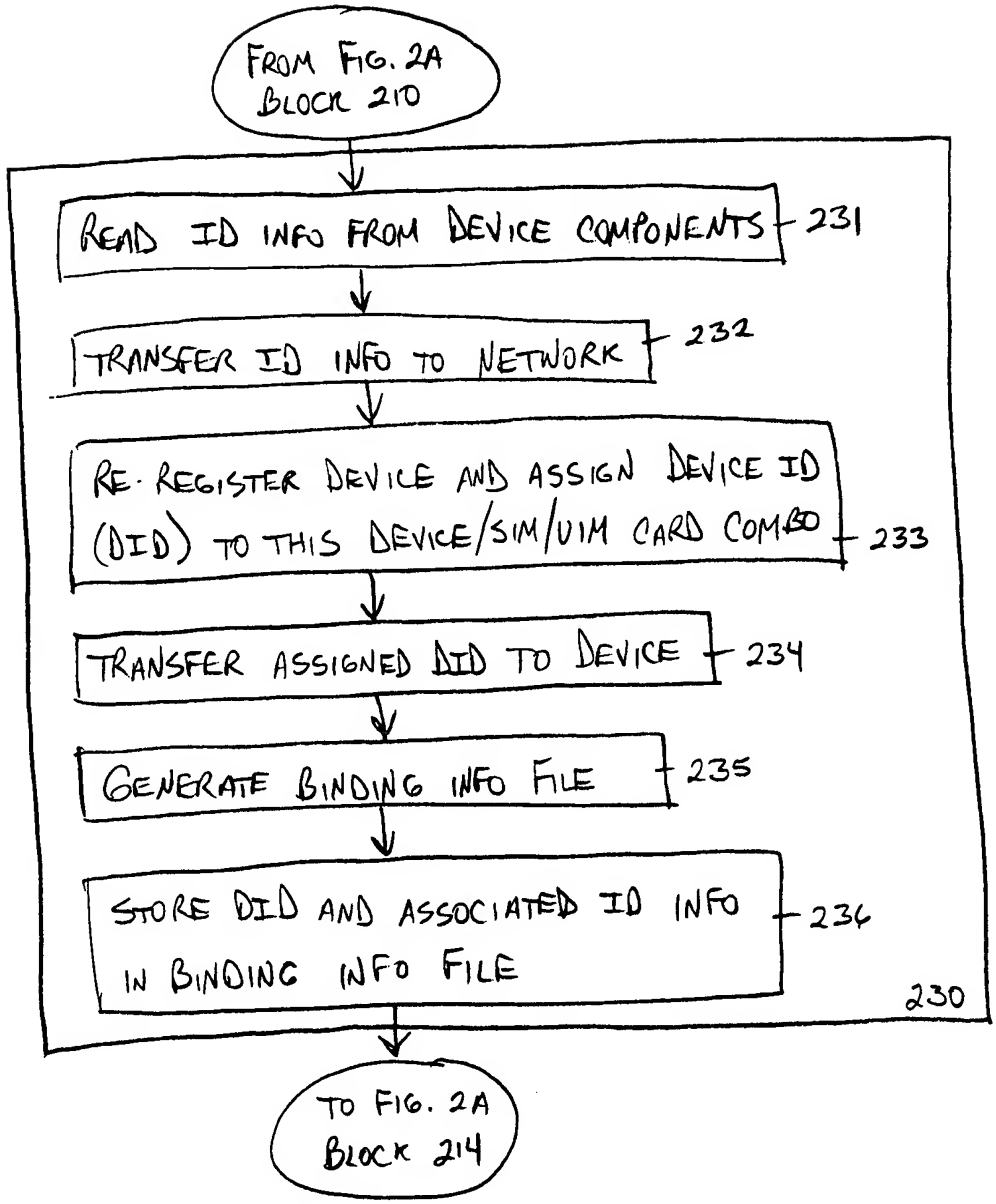
FROM FIG. 2A BLOCK 210
READ ID INFO FROM DEVICE COMPONENTS
231
TRANSFER ID INFO TO NETWORK
232
RE-REGISTER DEVICE AND ASSIGN DEVICE ID (DID) TO THIS DEVICE/SIM/UIM CARD COMBO
233
TRANSFER ASSIGNED DID TO DEVICE
234
GENERATE BINDING INFO FILE
235
STORE DID AND ASSOCIATED ID INFO IN BINDING INFO FILE
236
230
TO FIG. 2A BLOCK 214

FIGURE 2C

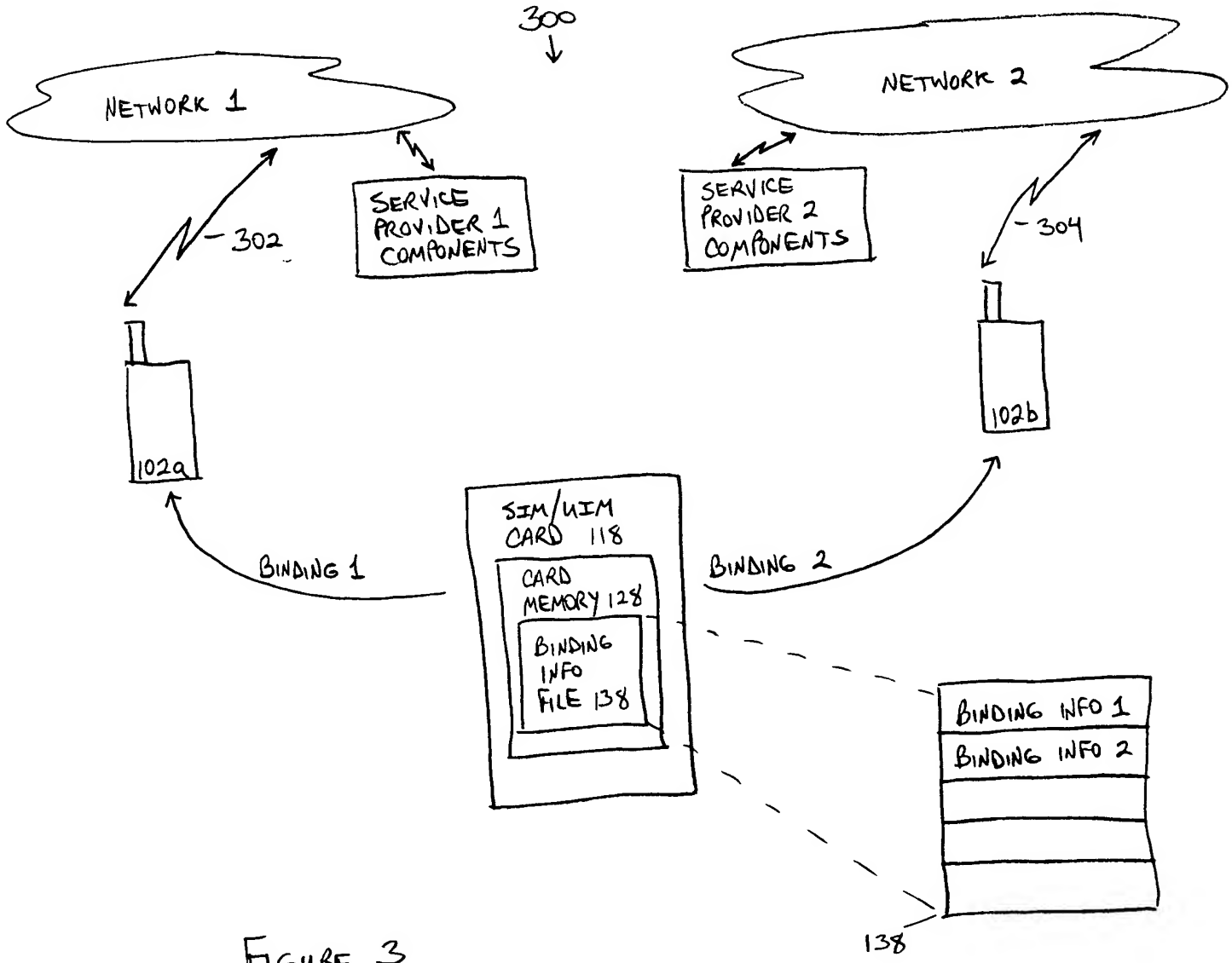
300
NETWORK 1
NETWORK 2
SERVICE PROVIDER 1 COMPONENTS
SERVICE PROVIDER 2 COMPONENTS
302
304
102a
102b
SIM/UIM CARD 118
CARD MEMORY 128
BINDING INFO FILE 138
BINDING 1
BINDING 2
BINDING INFO 1
BINDING INFO 2
138

FIGURE 3